

M E M O R A N D U M

TO: Mike Warfel/SEA
Paul Townley/SEA

FROM: Katie Downie/SEA

DATE: October 26, 1989

RE: TPH in Soil Samples from Longview Fibre, Seattle

PROJECT: SEA24054.A0

Attached are the results from the five soil samples submitted to the CH2M HILL close support laboratory on October 24, 1989 and analyzed on October 25, 1989. The samples were analyzed for total petroleum hydrocarbons by a modified Method 418.1 and the results are reported on an as-received (wet weight) basis. The modifications to the method were necessary to adapt the procedure for soil sample analysis instead of water samples.

The initial calibration of five standards plus a reagent blank had an $r=0.9986$, with calculated values within 10% of the true concentrations. The precision and accuracy, as measured by the matrix spike/matrix spike duplicate analyses are within acceptable limits with recoveries of 95% and 100%, relative percent difference of 2.0%.

If you have any questions on the analyses, or would like a copy of the modified Method 418.1, please let me know (ext. 5354).

/je

USEPA SF



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LONGVIEW FIBRE
SEATTLE, WASHINGTON

Project #: SEA24054.A0
Laboratory: On Site CSL
Analysis: Total Petroleum Hydrocarbons
Method: Screen/IR
Date: October 25, 1989
Data Type: Field Samples
Matrix: Soil
Detection Limit (U): 30

<u>SAMPLE IDENTITY</u>	<u>ABSORB.</u>	<u>CONC. FROM CURVE (ug/ml)</u>	<u>SOLVENT VOLUME (ml)</u>	<u>SAMPLE WEIGHT (gms)</u>	<u>DILUTION FACTOR</u>	<u>CONC. IN SOIL (mg/kg)</u>
Hnu >5 #2	0.210	173.8	10.00	4.46	6	2,340
Hnu <5 #2	0.056	22.7	10.00	5.62	1	40.4
W30	0.138	132.2	10.00	4.97	6	1,600
S20	0.372	319.8	10.00	5.62	50	28,500
N20	0.310	270.1	10.00	4.96	11	5,980